CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KTR /W.No.15/2018-19

Date: 12.11.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. K.T. Ramesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/226/2017-18 Dated: 12.02.2018
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19

Date : 12.11.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
Reference : EE/DD/WO/226/2017-18 Dated: 12.02.2018
Date of Testing : 12.11.2018
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	134	13.40	21.50	78.5	75-100
1.18	157	15.70	37.20	62.8	55-90
600 Micron	162	16.20	53.40	46.6	35-59
300 Micron	224	22.40	75.80	24.2	8-30
150 Micron	173	17.30	93.10	6.9	0-10

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 12.11.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
Reference : EE/DD/WO/226/2017-18 Dated: 12.02.2018
Date of Testing : 12.11.2018
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	557	3.71	3.71	96.29	95-100
20	5514	36.76	40.47	59.53	30-70
10	4782	31.88	72.35	27.65	10-35
4.75	3589	23.93	96.28	3.72	0-5

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 12.11.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. K.T. Ramesh, Contractor, Bangalore.
Name of Work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
Reference : EE/DD/WO/226/2017-18 Dated: 12.02.2018
Date of Testing : 12.11.2018
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	159	3.2	3.2	96.8	95-100
10	3347	66.9	70.1	29.9	25-55
4.75	1028	20.6	90.7	9.3	0-10

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 24.11.2018

ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)
IS : 2720 (Part - 5)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
Reference : EE/DD/WO/226/2017-18 Dated: 12/02/2018
Date of Testing : 24.11.2018

As per MORTH Table : 400-01

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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ob No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 24.11.2018

GRADATION FOR GSB(Coarse Graded-1)
IS : 2720 (Part - 4)

lient : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
gency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
lame of work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
eference : EE/DD/WO/226/2017-18 Dated: 12.02.2018
ate of Testing : 24.11.2018
mple Source : Mix Plant Bangalore. **Oven Dry Wt (gm) :** 5000

ABLE – 1

s Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
26.5	1472	1472	29.44	70.56	55-75
4.75	2546	4018	80.36	19.64	10-30
0.075	538	4556	91.12	8.88	<10

marks: Satisfies MORTH Specifications as per Table 400-2, Grading I

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Date : 27.11.2018

GRADATION FOR WMM
MORTH TABLE-400-11

ent : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
ency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
me of Work : Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
ference : EE/DD/WO/226/2017-18 Dated: 12.02.2018
te of Testing : 27.11.2018
terial Type : Wet Mix Macadam

Oven Dry.Wt 10500

Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	426	426	4.1	95.9	95-100
22.4	3451	3877	36.9	63.1	60-80
11.2	2136	6013	57.3	42.7	40-60
4.75	1478	7491	71.3	28.7	25-40
2.36	1259	8750	83.3	16.7	15-30
0.600	746	9496	90.4	9.6	8-22
0.075	468	9964	94.9	5.1	0-8

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 **Date:** 27.11.2018

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of the Work	Improvements & Reasphalting road from NH-4 to Kalasthi nagara, Nrupathunga road & sujata tent back side road in Dasarahalli ward no.15, BBMP, Bangalore.
Reference	EE/DD/WO/226/2017-18 Dated: 12.02.2018
Type of Mix	Wet Mix macadam
Date of Testing	27.11.2018

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	386	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.61	22.02	22.42	22.02

Comments:

- Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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